

MasterSeal[®] 901

Vinyl Ester Methacrylate resin for crack injection via injection hoses and packers

DESCRIPTION

MasterSeal 901 is based on vinyl ester methacrylate technology.

TYPICAL USES

- Injection into **MasterSeal 909** hose system or directly into concrete and rock. Due to its low viscosity microcracks and capillaries can easily be filled by injection.
- In contact with water it increases its volume. This enables sealing to take place even when the crack moves. No other materials have the same characteristics.
- The expansion is dependent on the amount of water available.
- Works in a saline environment

ADVANTAGES

- Good bond to damp surfaces. In contact with water no extraneous reactions take place, therefore no gas bubbles or foam layer are formed, both of which would hinder the bonding process
- In wet and humid conditions, there is a balance between the water content of the adjacent medium and **MasterSeal 901**
- Remains expanded when concrete has a moisture content
- The expansion of **MasterSeal 901** is reversible and is unaffected by ageing or electrolytic water
- Suitable for injection with one component or two component pumps

PACKAGING

MasterSeal 901 is supplied in three component packages of 22.066 kg.

	Resin Liquid	Hardener Powder	Accelerator Liquid
Colour	White	white	Yellow orange
Packing	2 x 10 kg	3 x 22 g	2 x 1 kg

TYPICAL PROPERTIES*

Chemical base	Acrylate polymer
Density @ 25°C	Approx. 1.057 kg/L
Pot life @ 25°C	15-30 min (see mixing chart)

APPLICATION GUIDELINES

MasterSeal 901 is supplied in 3 components. (Component resin, Hardener Powder, Accelerator)

MIXING

Fill bottle for Hardener Solution (empty) with 500 ml water add 1 bag of hardener powder to the water. Shake bottle until Powder is completely dissolved. Mix the required amount of resin with Hardener Solution, 1 L resin requires 50 ml of Hardener Solution. Prior to use add accelerator according to the supplied chart. The amount of accelerator per litre depends on the required pot-life at the present ambient temperature. Mix the injection resin until colour is uniform and inject with in pot life.

PLACING / APPLICATION

The injection of **MasterSeal 901** must be done by high pressure injection pump. All parts touching the fluid should be made either of stainless steel or chrome coated. Product containers should be made of plastic. Protect resin from sunlight and excessive heat to avoid uncontrolled polymerisation. Do not mix large amounts and always choose the volume mix in accordance with the expected consumption and time frame.

The pot-life is very much dependent upon ambient temperature and the amount mixed. A pot-life chart is available upon receipt of **MasterSeal 901** that shows the amount of accelerator required at different temperatures.

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TEMPERATURE OF APPLICATION

5°C to +40°C.

CLEANING

All equipment used in processing must be cleaned with soap and water, both when work is interrupted and on conclusion of work.

STORAGE AND SHELF LIFE

Store in a cool dry place, under cover, out of direct sunlight and protect from extremes of temperature. Original packing is +10°C to +30°C. Shelf life is 12 months when stored as above.

HEALTH AND SAFETY

Contact with the skin and mucous membranes should be avoided. During processing operations protective goggles must always be worn. If product touches the skin, wash immediately using soap and water, possibly with the addition of household vinegar. If it gets into the eyes, rinse thoroughly with an eyebath filled with boric solution. An eye specialist should always be consulted. For further information including disposal instructions refer to the Material Safety Data Sheet.

Following curing, **MasterSeal 901** is physiologically harmless.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

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